

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001782A. CLASSIFICATION OF SUBJECT MATTER
B22D-11/06; B22D-21/04

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
B22D-11/06, B22D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

Canadian Patent Database; Delphion

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4934443 (Honeycutt et al) June, 19, 1990 col. 4, lines 42 to 45; col. 3, line 39, col. 6, lines 3 to 6; col. 10, line 31	1 to 22
X	FR 1364717 (Compagnie Generale du Duralumin et du Cuivre) May 19, 1964 whole document	1 to 22
Y	US 4061177 (Sivilotti et al) Dec. 6, 1977 Figure 1	1 to 22
Y	US 6063215 (Harrington) May 16, 2000 col. 5, lines 28-30	2, 14, 19

Further documents are listed in the continuation of Box C.[]

Patent family members are listed in annex.[X]

* Special categories of cited documents :	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international-type search
24 December 2004 (24-12-2004)Date of mailing of the international-type search report
23 February 2005 (23-02-2005)Name and mailing address of the ISA/CA
Commissioner of Patents
Canadian Patent Office - PCT
Ottawa/Gatineau K1A 0C9
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INTERNATIONAL SEARCH REPORT

Information on Patent Family Members

International application No.

PCT/CA2004/001782

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US4934443	19-06-1990	AT100743T T	15-02-1994
		CA1325097 C	14-12-1993
		DE3887518D D1	10-03-1994
		DE3887518T T2	23-06-1994
		EP0362305 A1	11-04-1990
		JP2503170T T	04-10-1990
		US4934443 A	19-06-1990
		WO8907498 A1	24-08-1989

FR1364717	26-06-1964	FR1364717 A	26-06-1964
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US4061177	AT276076 A		15-12-1979
		AT357708B B	25-07-1980
		AU502200 B2	19-07-1979
		AU1300076 A	20-10-1977
		BE840795 A1	02-08-1976
		BR7602347 A	05-10-1976
		CA1091889 A1	23-12-1980
		CA1093272 A1	13-01-1981
		CH614142 A5	15-11-1979
		DE2616463 A1	28-10-1976
		DK144724B B	24-05-1982
		ES447048 A1	01-06-1977
		FR2307599 A1	12-11-1976
		GB1549241 A	01-08-1979
		IT1059139 B	31-05-1982
		IT1059140 B	31-05-1982
		JP988287C C	26-02-1980
		NL169694B B	16-03-1982
		NO146849B B	13-09-1982
		NZ180524 A	18-12-1978
		SE415737 B	27-10-1980
		SE7604371 A	16-10-1976
		SU1114324 A3	15-09-1984
		US4061177 A	06-12-1977
		US4061178 A	06-12-1977
		US4190103 A	26-02-1980
		ZA7601991 A	30-03-1977

US6013215	11-01-2000	CA2237652 A1	10-09-1999
		US6013215 A	11-01-2000